Chapter Six

Transportation

This chapter is based on the land use element as established in this plan. King County envisions a future transportation system that supports the regional land use strategy, which seeks to focus most growth in urbanized areas. King County's goals are to:

- Connect all modes of transportation to form an integrated, balanced system,
- Strengthen the region's economy by moving people and goods efficiently,
- Give individuals and families a range of affordable transportation options, and
- Minimize transportation's adverse effects on the environment.

As a countywide transportation service provider, King County will maintain Metro Transit's public transportation services and work with Sound Transit and other transit agencies to provide seamless, multimodal transit services. King County will cooperate with other local governments and the Washington State Department of Transportation to implement the Regional Arterial Network, improve freight mobility and carry out strategies to maintain the efficiency of freeways and arterials in the region.

In the unincorporated Urban Area, King County will complete the roadway network, add sidewalks, bike lanes and transit facilities as appropriate, and maintain the transportation infrastructure to allow denser development to occur. In the Rural Area, King County will emphasize maintenance and safety rather than increased traffic capacity.

This chapter is consistent with and meets the requirements of regional and countywide plans and policies that respond to growth management legislation. The Countywide Planning Policies (CPP) have been used to guide the development of the transportation element and to ensure consistency with plans and programs developed by adjacent jurisdictions.

Regional direction for the transportation element is set by and the Metropolitan Transportation Plan that was developed by the Puget Sound Regional Council (PSRC) to update Vision 2020.

The framework and direction for the development of comprehensive plans is provided by growth management legislation. This chapter is the transportation element of the King County Comprehensive Plan as required by that legislation.

Components of the Transportation Element

The Transportation Element of this plan is comprised of five major components. The first is the Transportation chapter which includes the narrative and policy language. The second is Technical Appendix C of this Plan, which contains a 20-year financial forecast, the Land Use and Travel Forecast Technical Report, and a transportation inventory. The third includes the Transportation Needs Report, which is adopted herein by reference, which contains a 20-year financial forecast and a 20-year list of transportation needs, and will be merged into a future Six-Year Roads Development Plan and the Roads Capital Improvement Program, which is also adopted herein by reference. The fourth is the Long-Range Transit Development Plan and the Six-Year Transit Development Plan and Capital Improvement Program, which are also adopted herein by reference. The fifth and last component is the concurrency regulation, which implements the concurrency requirements and is codified at King County Code 14.65-70.

6-1 February 2001

I. Regional System

A. Countywide Transportation Service Provider

The adoption of the State of Washington's Growth Management Act and the 1996 consolidation of King County Government with the Municipality of Metropolitan Seattle (Metro) gave King County a new regional role. King County provides countywide transit service and builds and maintains arterials of countywide and regional significance within unincorporated King County. King County also provides contract transportation services to a number of King County cities.

The Growth Management Act fundamentally changed the way King County carries out comprehensive planning, placing special emphasis on transportation by making it unlawful to approve development that fails to meet the test of concurrency. Future development is constrained by King County's ability to finance needed transportation facilities or programs. To limit sprawl, create the desired urban form, and provide some measure of predictability, King County will support Comprehensive Plan policies by focusing resources in the most efficient and cost effective way.

As revenue becomes available, community action strategies will be developed to program projects for specific geographic subareas of unincorporated urban King County. The strategies will support the long-term vision for the subareas, identify King County capital improvement projects to help achieve that vision, and then prioritize the projects. Community Action Strategies will be developed in consultation with affected residents, community groups, local jurisdictions, other public service providers, Unincorporated Area Councils and local businesses. These strategies will not affect programming of funding for existing projects, but will be used only for projects not yet identified in the Capital Improvement Program.

See the Urban Communities Chapter for a complete discussion on the Community Action Strategies process.

T-101 As a countywide transportation service provider, King County establishes policy for transit and for the unincorporated area road system. General and long-range policy shall be established for the road system in the King County Comprehensive Plan and for transit in the Transit Long-Range Policy Framework. Six-year development plans for the transit and roads systems shall also be prepared consistent with these primary policy documents.

In addition to involving the general public, the Roads Six Year Development Plan shall be completed with timely input from the unincorporated area councils and the subarea transportation forums.

6-2

King County should identify improvements and strategies needed to carry out the land use vision and meet the level-of-service requirements for transportation. Road improvements should be identified and prioritized in the Transportation Needs Report and Roads Six Year Development Plan and Capital Improvement Program. Public transportation projects should be identified in the improvement program of the Transit Capital Budget and the Six-Year Plan for Transit Service, and the Long Range Policy Framework For Public Transportation.

February 2001

T-102

T-103

T-104 King County should develop a long-range financial component that generally evaluates and describes funding sources and strategies to carry out the transportation element. An annual six-year Financial Plan should be prepared that considers transportation priorities and is used in developing the Capital Improvement Program.

B. Public Transportation

King County Metro Transit provides bus and van service, ridesharing, paratransit, employer programs and other custom services in cities and unincorporated areas. One of King County's missions is to increase transit ridership by providing the best possible public transportation service, thereby improving regional mobility and the quality of life in King County. To achieve this mission, King County works with other local governments and communities, including Sound Transit, to provide an integrated network of public transportation services.

A major redesign of the King County Metro Transit system was successfully implemented between 1996 and 1999. As a result, Metro Transit now offers more connections between employment centers and suburban activity centers. New partnerships with employers have also led to greater use of transit, carpools and vanpools to ease congestion during commute hours.

A new Six-Year Transit Development Plan is being developed to guide Metro Transit operations and capital investments throughout the years 2001 – 2006. The new Six-Year Transit Development Plan will focus on the development of public transit service and facilities consistent with land use goals of this Comprehensive Plan, the Growth Management Act and the King County Countywide Planning Polices. Important issues for the Six Year Transit Development Plan include: the coordination of transit and roadway improvements along arterials that cross more than one jurisdiction to improve traffic flow throughout the County; the coordination of regional transit services in the three-county area served by Sound Transit and its partner transit systems; and the improvement of intermodal connections.

1. Regional Coordination

T-106

T-107

Bus, rail, and ferry transit services cross county boundaries, providing the critical transportation links on which our regional economy depends. In addition, all of our transit services depend on convenient connections to our roadway and highway systems.

As the region continues to grow, transit routes and schedules must be coordinated between agencies and modes so transit will be a viable and convenient option for our citizens and visitors. It is also imperative that King County seek input from a broad spectrum of County residents to ensure that services meet citizen needs.

T-105

King County should work collaboratively with governments and communities to implement a locally based, regionally linked network of public transportation services and facilities addressing regional, inter-community, and local service needs. King County should actively develop, implement, and promote non-conventional public transportation options as a part of that system.

Functional transportation plans should be coordinated with other related transportation plans and programs of other jurisdictions and may include coordinated funding arrangements to maximize the effectiveness of available resources.

King County should work with the Washington State Department of Transportation and Kitsap County to ensure that service and capital plans for ferries are consistent with transit service plans and goals. King County should encourage additional passenger-only ferry services to enhance the county's multimodal transportation network for both commute and recreational trips.

6-3 February 2001

2. Transit Infrastructure

King County's transit infrastructure and service investments are developed to meet regional, intercommunity, and local travel needs throughout the County. The policy framework used to make these investments must balance Comprehensive Plan requirements, regional cooperation, funding constraints, and community needs.

T-108

In areas where transit services and ridership demand warrant, the County should invest in transit supportive facilities and road improvements that support passenger comfort, speed and reliability, such as signal and intersection prioritization, passenger waiting areas and nonmotorized improvements through the prioritization process in the Transportation Needs Report and Capital Improvement Program-

3. Linking Transit and Land Use

To support transit ridership throughout the County, King County encourages land use policies that link denser development with transit service. It costs more to provide transit service in low-density, single use communities. In denser, mixed-use communities like downtown Seattle, Belltown, downtown Bellevue and Renton, transit routes have high ridership and recover a high percentage of their operating costs, allowing for more frequent service. Transit-oriented development in transit corridors can provide similar benefits.

T-109

King County and local cities should adopt transit supportive road design standards, site access guidelines and land use regulations to promote transit use, high-density development, mixed uses and reduced parking in the Urban Growth Area. Site design should be compatible with adjacent neighborhoods and compatible with pedestrian, transit and non-motorized activity.

T-110

Transit centers and park-and-ride lots should include safe and convenient access for buses, high-occupancy vehicles, pedestrians and bicycles to minimize conflicts with other traffic. Mixed land uses should be encouraged at transit centers and park-and-ride lots to meet passenger and commuter needs and reduce vehicle trips. Park-and-ride facilities should be designed with consideration of the most efficient use of land.

T-111

King County supports transit-oriented development in transit corridors. King County shall encourage public/private partnerships to propose opportunities for joint transit-oriented development. Such developments should provide priority access for transit, pedestrians, bicyclists, car and van pools and other alternatives to single-occupant vehicles.

C. Regional Arterial Network

King County's transportation system relies heavily on freeways and arterials to move people and goods. As Federal and State highways become more congested, efficient operation of the regional arterials has become more important. The management of this arterial system is now a central part of King County's efforts to sustain the region's livability and economic health.

The Regional Arterial Network (RAN) is an integrated system of roadways that are critical for the movement of people and goods in King County. The RAN approach encompasses growth management and capital investment strategies for improved mobility between urban centers. Since many RAN corridors pass through multiple jurisdictions, RAN stresses a regional, multimodal approach to coordinate improvements such as transit enhancements, additional capacity, traffic signals timed for maximum mobility, and high-occupancy-vehicle lanes for buses and carpools.

T-112 King County should pursue the cooperation of cities and the State in developing a countywide arterial/transit route system. The system should provide preferential treatment for high occupancy vehicles including transit, and for efficient, seamless operation across jurisdiction boundaries.

King County, in association with local jurisdictions and the state, shall identify and develop a Regional Arterial Network system that connects urban centers and includes regionally significant arterial roadways within major transit, freight, and/or general mobility corridors. The Regional Arterial Network Plan shall be completed and submitted to the County Council for adoption of RAN-designated facilities by June 30, 2001.

T-113 Improvements made to the Regional Arterial Network shall address the movement of both people and goods throughout the County, and shall be designed to relieve congestion and to improve mobility and access for all modes of transportation.

D. Transportation Demand Management

To sustain and enhance regional mobility, King County should be a leader in implementing programs and land use measures that encourage people and businesses to reduce single occupant vehicle trips. Transportation Demand Management (TDM) covers a broad range of efforts to reduce single occupant vehicle travel including telecommuting, congestion pricing, parking management, non-motorized travel, site design standards, public information, ridesharing, public transportation, joint use of parking facilities, and park and ride and other intermodal transfer facilities. Transportation demand management contributes to successful implementation of new private and public development, concurrency, the regional arterial network, and other transit and road investments.

- T-114 Transportation Demand Management (TDM) strategies should be used to promote travel efficiency and energy conservation and reduce the adverse environmental impacts of the transportation system. These strategies should include commute trip reduction, demand management and system management. TDM measures may include telecommuting, congestion pricing, parking management, non-motorized travel, site design standards, public information, ridesharing, public transportation, joint use of parking facilities, and park and ride and other intermodal transfer facilities.
- Transportation demand and system management strategies beyond those adopted as County regulation may be considered as one of a menu of measures to mitigate for traffic impacts of proposed development.

 Transportation demand and system management strategies, as well as other mitigation requirements may be imposed on new development as mandatory mitigation measures as necessary to meet the requirements for mitigation of impacts pursuant to the State Environmental Policy Act and the State Subdivision Act. Mitigation payment for new development should be based on trips generated after consideration of the effects of these additional transportation demand management measures.
- T-116 Management of employee parking, such as the provision of preferred parking for high-occupancy vehicles and bicycle parking, should be used to support alternatives to commuting by single-occupant vehicles. Employers should consider the accessibility to adequate public transportation and high-occupancy vehicle facilities and services when developing site and parking plans.

6-5 February 2001

- T-117 King County should participate financially in efforts to implement
 Transportation Demand Management strategies, including policies developed
 through regional consensus and adopted by the County. To this end, the
 County shall identify funds to implement transportation demand management
 strategies, public education/information, research and planning.
- T-118 King County should work with the Washington State Department of Transportation, Puget Sound Regional Council, and cities to develop and implement a regional policy on appropriate applications of transportation pricing strategies that reflect the higher cost of peak hour automobile usage.
- T-119
 King County should work with the cities and other affected agencies to develop a regional parking strategy. This strategy should be consistent with regional and local transportation plans. King County should encourage shared parking facilities in areas where high density, mixed use development is planned and where walking is convenient for short trips. This strategy should include establishing minimum and maximum parking ratios.

E. Freight Mobility

Freight mobility is critical to King County's economy and western Washington's role as a major national trading region. King County should support efforts to plan and create a fast, reliable freight transportation system in the region. To maintain the region's a competitive edge, our transportation infrastructure must provide for the efficient movement of goods and freight to and from our port and industrial areas, balanced with the needs of general purpose and high occupancy vehicle traffic.

- T-120 King County shall be a regional proponent for freight planning and mobility projects and actions that result in a reliable and efficient freight transportation system. The County should identify opportunities to create financial partnerships to achieve these goals.
- T-121 King County should identify and develop major transportation projects, including traffic operations and safety related projects, which improve freight mobility. This work shall be coordinated with local jurisdictions, other counties or regional agencies, the state, ports and the private sector.

February 2001 6-6

II. Linking Transportation Infrastructure and Services with Growth

A. Land Use

T-202

The transportation element is based on assumed targets for household and employment growth over the next 20 years. These assumptions have been derived from regional forecasts of countywide growth totals prepared by the Puget Sound Regional Council. Growth targets to be used for planning purposes have been developed with consensus of the cities. These assumptions are based on a countywide growth strategy that encourages growth in the urban areas where public facilities exist or can be provided efficiently. The new demands for travel created by such growth could be accommodated consistent with level-of-service standards, revenue forecasts and the overall King County land use development strategy and vision.

The urban and rural land use policies for unincorporated King County are described in Chapters Two and Three. The growth target assumptions are the basis of the transportation element, and the growth targets are consistent with land capacity and density estimates used to calculate travel demand in the County. Travel demand was used to project the needs for transportation system improvements. The population forecasts for each area should be considered as minimum growth amounts that may be exceeded under unexpected scenarios of growth and development. The expected growth in housing units includes development proposals that are already in the permitting process or "pipeline."

King County's transportation system should improve the mobility of residents providing greater access to housing, jobs, goods and services, shopping and recreation, all of which are characteristic of a high quality of life. The transportation component of this plan establishes a vital link between land use and the transportation facilities and services needed to support growth. The land use vision established in this Plan has been used to develop the transportation policies, needs, financing, and strategies.

T-201 The transportation system should provide mobility choices for County residents, visitors and businesses in support of the Vision 2020 Regional Growth Strategies and the County's land use and development vision, goals and policies.

Travel modes should be interconnected to form an integrated, coordinated and balanced multi-modal transportation system that serves the travel needs of the County both effectively and efficiently.

T-203 The transportation system should include:

- a. Freeways, arterial streets and local/neighborhood streets;
- Local and express bus transit and paratransit services, including Americans with Disabilities Act (ADA) service programs;
- c. High capacity transit;
- d. High-occupancy-vehicle lanes and ridesharing facilities;
- e. Demand and system management programs;
- f. Facilities and programs for pedestrians, bicycles and equestrians;
- g. Facilities to accommodate freight and goods delivery, including railroads, intermodal yards and distribution centers;

6-7 February 2001

h. Airports; and

Marine transportation facilities and navigable waterways.

T-204

The transportation system in the Urban Growth Area should be consistent with urban development policies, and growth targets. System improvements should implement the Urban Land Use Chapter and be prioritized according to the process contained in the Transportation Needs Report. Mixed land uses that reduce travel demand should be supported.

T-205

The transportation system in the Rural Area and Natural Resource Lands should be consistent with their rural/resource character. Improvements should emphasize operations, safety, maintenance and environmental quality.

T-206

Improvements on arterials in the rural areas should be limited to safety, preservation, and operational and capacity improvements that accommodate existing deficiencies and/or pipeline growth. King County shall not construct and shall oppose the construction by other agencies of any new arterials or freeways in the Rural Area or Natural Resource Lands except where new arterial capacity passes through segments of rural lands to serve the needs of urban areas within King County has already been planned, specifically the SPAR road around Issaquah, and improvements to state and county roads located west of the Novelty Hill Master Planned Communities. Where that new arterial capacity passes through rural areas, the design of the arterials will emphasize preserving rural character and limiting rural growth.

B. Travel Forecasts

Travel forecasts provide one of the important steps in linking land use and transportation. The land use vision and growth targets for planning areas have been allocated to the County's transportation zone system. This provides the level of detail needed to develop travel forecasts to analyze future transportation system performance and to identify system improvement needs. Travel forecasts are based on the Countywide Planning Policies' established 2012 household and job growth target ranges for the Urban and Rural Areas. The travel forecasting process is based on the Puget Sound Regional Council's modeling and forecasting techniques. Additional forecasting information from the Concurrency Management System is used to update forecasts.

T-207

The travel forecasts used to identify transportation improvements/needs should be based on actual growth in households and jobs that has occurred and is predicted to occur in both the unincorporated and incorporated areas, as well as growth in adjoining counties that is expected to generate traffic in King County, and should account for expected changes in personal travel behavior and feasibility of mode choices. Current travel forecasts shall be included with any major update of the Comprehensive Plan. The travel forecasts shall include a baseline year reflecting actual growth in households and jobs, and forecasts reflecting both predicted growth in the region and growth targets from the Urban Communities and Rural Legacy and Natural Resource Lands chapters.

C. Level-of-service Standards

The Growth Management Act (GMA) requires level-of-service standards for all arterials and transit routes to serve as a gauge in judging performance of the system. The GMA also calls for specific actions and requirements for bringing into compliance facilities or services that are below the adopted level-of-service standard. Cities and counties are responsible for developing level-of-service standards on a coordinated basis.

Level-of-service is a qualitative measure to describe operational conditions using a letter designation from A to F. Level-of-service A represents the best operating conditions; level-of-service F represents the worst operating conditions. King County's approach to level-of-service incorporates this basic concept and is tailored to meet the needs of growth management. A tool for judging performance of the transportation system is a comparison of traffic volumes to capacity. In general, capacity is the maximum rate at which persons or vehicles can pass through a section of a facility. This level-of-service will be used to evaluate the performance of intersections and critical links. Planning level analysis of level-of-service will be used to identify system deficiencies.

King County has developed the Transportation Adequacy Measure (TAM) to meet the level-of-service requirements of the GMA. Traditional level-of-service concepts were used to develop create the Transportation Adequacy Measure. The purpose of the Transportation Adequacy Measure is twofold. It is used as a gauge to judge performance of the transportation system and to identify system deficiencies caused by new developments.

The Transportation Adequacy Measure was developed in accordance with the following general rules:

- Use transit service, non-motorized travel and demand management actions to set thresholds:
- Exempt facility sections with High-Occupancy Vehicle links from the volume/capacity evaluation:
- 3. Evaluate volume/capacity by a weighted zonal average;
- 4. Evaluate volume/capacity links which exceed a critical volume/capacity ratio;
- 5. Evaluate urban connectors in the Rural Area; and,
- 6. Address impacts within other jurisdictions.

Transit is an important transportation option in urban areas. Both transit availability and its function as an alternative to the single-occupancy vehicle are used in the Transportation Adequacy Measure evaluation.

T-208 Level-of-service guidelines for allocating transit service should be developed for use, along with future population density estimates, to plan for transit service and to provide jurisdictions with realistic service expectations when planning for future growth.

T-209 The following Transportation Adequacy Measure standards shall serve as the basis for King County's level-of-service standards for its arterials. The Transportation Adequacy Measure standards serve as a gauge to judge the performance of the arterial system. The level-of-service standards, as measured by the County's concurrency management regulations, will be applied to Small Area Zones as defined by the countywide travel model. The TAM standards shall be used as a tool to evaluate concurrency for long-range transportation planning, development review and programming of transportation investments. Pedestrian and bicycle facilities should be implemented as a high priority in Transportation Service Area 1.

6-9 February 2001

Transportation Adequacy Measure (TAM) Standards

Area ¹	Maximum Averaged V/C Zonal Score	Average TAM Standards
Transportation Service Area 1	0.99	Е
Transportation Service Area 2	0.99	Е
Transportation Service Area 3	0.89	D
Transportation Service Area 4	0.79	С
Transportation Service Area 5	0.69	В

¹ Transportation Service Areas correspond to the Transportation Service Area Map

T-210 King County should use a link and intersection level-of-service analysis based on the Highway Capacity Manual to measure the cumulative performance of the transportation system at a plan level of detail. This level-of-service evaluation should be used to identify deficiencies for small area zones currently failing to meet concurrency. The prioritized list of transportation needs contained in the Six-Year Road Development Plan shall include projects needed to address

such deficiencies.

In order to monitor the performance of its transportation system, to evaluate transportation system improvement strategies, and to facilitate coordination between state, county, and cities' transportation investment programs, King County recognizes the minimum level-of-service standards, adopted by the State of Washington for urban and rural state-owned transportation facilities, designated as "highways of statewide significance".

Consistent with RCW 36.70A.070(6)(C), the concurrency requirements of King County's Concurrency Management System program do not apply to transportation facilities designated as "highways of statewide significance".

> King County should work with state, regional and local governments to review and establish level-of-service standards for state-owned transportation facilities and services.

> The TAM standard for Transportation Service Area 3 shall be applied to development requests in Transportation Service Area 4 for individual sites where public sewer and water service is available at the time of permit application. The availability of water and sewer service for each development shall be defined by water and sewer availability certificates issued either without conditions or with conditions that King County has determined can be reasonably fulfilled.

> Transportation improvements, strategies, and actions needed to serve new development shall be in place at the time new development impacts occur so that Transportation Adequacy Measure standards are maintained. If this is not feasible, then a financial commitment shall be made to complete the improvements, strategies and actions within six years. If the concurrency requirements cannot be met, certificates of transportation concurrency shall not be issued until level-of-service standards can be met.

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D. Mode Split

"Mode split" means the share of total vehicle traffic by mode – bus, non-motorized vehicle, carpool, single occupant vehicle, etc. - during a particular time period. Mode split varies by time of day, weekdays vs. weekend, and location. A higher mode split for non-single occupant vehicles, usually during weekday peak periods, means fewer vehicles are needed to carry a given number of people. Mode split is used as a measure of the efficiency of the transportation system.

Countywide Planning Policy T-10 calls for local jurisdictions to develop mode split goals to established employment centers. Unincorporated King County does not have any established employment centers although cities within King County served by Metro Transit do. As part of the Six-Year Transit Plan development, King County coordinates the establishment of mode split goals for cities within the County.

The Metropolitan Transportation Plan provides policy guidance for determining mode split goals. This Chapter is based on the mode split policy guidance provided by that Plan.

T-216 King County should develop variable mode split goals for each Transportation Service Area to reflect differing circumstances such as intensity of land use and availability of alternatives to single-occupancy-vehicle travel.

T-217 The County should pursue those goals through the implementation of policies that support transportation demand management, transit service improvements, and expansion of high-occupancy vehicle programs. The County should recognize and financially support efforts locally, regionally, and statewide to advance Transportation Demand Management technologies.

E. Concurrency

The Growth Management Act requires local jurisdictions planning under RCW 36.70A.040(vi)(b) to adopt and enforce ordinances which prohibit development approval if the development causes the level of services on a locally owned transportation facility to decline below the adopted level of service standards. King County's Transportation Concurrency Management (TCM) Program was developed to address the Growth Management Act's concurrency requirement. The TCM program requires that transportation facilities must be available to carry the traffic of a proposed development at County level-of-service standards or else the proposed development cannot be approved. If level-of-service standards are not met at the time of development application, the County may still approve development but only if a financial commitment for improvements is made concurrent with development as defined by the GMA. Strategies may include increased public transportation services, ridesharing programs, demand management, and other transportation systems management strategies.

T-218 King County should maintain a Concurrency Management System designed to ensure that transportation improvements, strategies and actions needed to support new development and achieve transportation level-of-service standards are completed within the six-year timeframe required by the Growth Management Act.

T-219 King County shall use the Community Action Strategies Subarea Priority Map to determine the appropriate priority scores for transportation capacity projects to eliminate concurrency restraints on new housing and businesses. The transportation needs prioritization process shall include a Community Action Strategies ranking criteria wherein capacity projects are scored consistent with the priority of the subarea as shown on the Subarea Priority Map.

T-220 The transportation service areas and service strategies described in the following table should be used to direct future transportation improvements and services.

6-11 February 2001

T-220--Transportation Service Strategies

Transportation	Transportation	
Service Area	Mode	Transportation Service Strategy
0	Roads	Provided by cities
		Coordinate road construction programs
	TDM	Provide regional TDM Programs and Services
	Transit	Provide all day express service to incorporated urban centers
		Provide specialized Americans with Disabilities Act service
	Ferries	Provided by the Washington State Department of Transportation
		Explore ferry service options to support Land Use and Transportation Elements
	Nonmotorized	Interconnect unincorporated facilities with cities
	-	
1	Roads	Minimize general purpose roadway capacity expansion
•		Complete urban arterial grid
		Invest in transit supportive signals, intersection treatments and HOV lanes
		Construct roadway projects needed for safety
	TDM	Maximize ridesharing mobility
		Plan to provide for HOV parking spaces & passenger loading zones
		Advance HOV projects to support transit and ridesharing
	Transit	Support the White Center Activity Center with new transit facilities
		Provide increased off-peak service
		Provide specialized Americans with Disabilities Act facilities and service
	Ferries	Provided by the Washington State Department of Transportation
		Explore ferry service options to support Land Use and Transportation Elements
	Nonmotorized	Improve nonmotorized access to transit, reduce barriers to access
		Provide for a continuous sidewalk and bicycle system
		Integrate nonmotorized projects with roadway improvements
		Provide multi-purpose trail facilities which address transportation needs
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2	Roads	Minimize general purpose roadway capacity expansion
_		Support road capacity projects to solve existing and known development problems
		Invest in transit supportive signals, intersection treatments and HOV lanes
		Construct roadway projects needed for safety
	TDM	Support ridesharing
		Plan to provide for HOV parking spaces and passenger loading zones
		Advance HOV projects to support transit and ridesharing
	Transit	Provide peak and off-peak service with increased coverage and capacity
		Provide links to activity and employment centers
		Provide specialized Americans With Disabilities Act facilities and service
	Ferries	Provided by the Washington State Department of Transportation
		Explore ferry service options to support Land Use and Transportation Elements
	Nonmotorized	Support sidewalk and bicycle facilities, especially on arterials
		Improve nonmotorized access to transit, reduce barriers to access
		Integrate nonmotorized projects with roadway improvements
		Provide multi-purpose trail facilities which address transportation needs

February 2001 6-12

3	Roads	Construct arterials to meet existing and future capacity needs
3		Invest in transit supportive roadway facilities as transit service increases
		Construct roadway projects needed for safety
	TDM	Emphasize ridesharing support
		Plan to provide for HOV parking spaces and passenger loading zones
		Encourage ridesharing mobility options
	Transit	Peak hour commuter service from Park and Ride lots
		Some additional service
		Phase in transit / HOV mobility as household and employment densities increase
		Provide specialized Americans With Disabilities Act facilities and service
	Ferries	Provided by the Washington State Department of Transportation
	1 011100	Explore ferry service options to support Land Use and Transportation Elements
	Nonmotorized	Integrate nonmotorized projects with roadway improvements
	140111101011200	Improve sidewalk and bicycle facilities, especially on arterials
		Provide multi-purpose trail facilities which address transportation needs
	I	1 10 11de Hiditi purpose trair identitée which dadrese trainsportation ricode
	Roads	Construct arterials to meet existing and pipeline capacity needs, then subsequent new
4	rtodus	growth.
		Invest in transit supportive roadway facilities as transit service increases
		Construct roadway projects needed for safety
	TDM	Emphasize ridesharing support
	Transit	Peak hour commuter service from Park & Ride lots
	Transit	Phase in transit / HOV mobility as household and employment densities increase
	Ferries	Provide specialized Americans With Disabilities Act facilities and service
	Ferries	Provided by the Washington State Department of Transportation
	N	Explore ferry service options to support Land Use and Transportation Elements
	Nonmotorized	Integrate nonmotorized projects with roadway improvements
		Provide multi-purpose trail facilities which address transportation needs
	T -	
5	Roads	No roadway capacity expansion for growth except for urban connectors
		Construct roadway projects needed for safety
	TDM	Encourage ridesharing
	Transit	Limited peak hour express bus service to centers for commuters at Park & Ride lots
		Provide specialized Americans With Disabilities Act facilities and service
	Ferries	Provided by the Washington State Department of Transportation
		Explore ferry service options to support Land Use and Transportation Elements
	Non-motorized	Integrate nonmotorized projects with roadway improvements
		Focus on shoulder improvements and shoulder development
		Provide multi-purpose trail facilities which address transportation needs

6-13 February 2001

III. Transportation System Planning and Design

A. Arterials and Streets

King County designs, builds, operates and maintains roads, bridges and pathways in unincorporated areas of King County. The goal is to make the County's transportation system safe and efficient for all uses and modes of travel. King County's arterial system represents a broad range of mobility options. In the past, the arterial system has been characterized as the system for moving cars and other vehicles. The arterial system should be viewed as a resource for moving people and goods by many modes of transportation, including autos, carpools, buses, bicycles, pedestrians, and trucks.

T-301	The most cost-effective improvement should be considered first to solve existing and future deficiencies before higher cost, capital-intensive projects are considered. Efficiency improvements supporting high-occupancy-vehicles
	(HOV) and transit operations on existing roads should be a higher priority than general capacity improvements enhancing single-occupant-vehicle (SOV) travel.

T-302	Transportation improvements should be designed, built, and operated to
	minimize air, water and noise pollution and the disruption of natural surface
	water drainage in compliance with provisions and requirements of applicable
	Federal, state and local environmental regulations. Particular care should be
	taken to minimize impacts when facilities are located where they could increase
	the pressure for development in sensitive areas or rural or resource lands.
	Natural and historic resource protection should also be considered.

T-303	Needed rights-of-way, strategies to reduce demand and off-site improvements
	should be identified and required as conditions of development approval to the
	extent that such conditions are directly related to impact mitigation and will
	benefit the development.

T-304	King County's road design and construction standards shall promote safe, cost
	effective roads that encourage multimodal use, reflect the different needs and
	service levels for the Urban Growth Area and Rural Area, responding to the
	different needs for areawide mobility and access to abutting properties.

- T-305 Appropriate neighborhood traffic control measures, land use, zoning, design and road standards and development conditions should be used to improve safety, transit access and nonmotorized travel in residential neighborhoods.
- T-306 King County should encourage the development of highly connective, gridbased arterial and non-arterial road networks in new developments and areas of in-fill development. To this end, the County should:

- Make specific determinative findings to establish non-arterial grid a. system routes needed for public and emergency access in in-fill developments at the time of land-use permit review.
- b. Encourage new commercial, multi-family, and single family residential developments to develop highly connective street networks to promote better accessibility by all modes. The use of cul-de-sacs should be discouraged, but where they are used, they should include pedestrian pathways to connect with nearby streets.
- T-307

Development proposals should extend the public road system through dedication when the extension is in the public interest and is reasonably necessary as a result of the impacts of the development. The impacts that may warrant such an extension include, but are not limited to, impacts on neighborhood circulation, increases in the use of arterials for local vehicular trips, the reductions in traffic safety through uncoordinated and/or inadequately spaced street access to the arterials, and restrictions on the availability of alternative emergency access routes.

- T-308 The County should limit the placement of facilities or physical barriers and improvements, such as buildings, utilities, and surface water management facilities within specific areas of a development in order to allow for the future construction of roads to facilitate the establishment of a safe and efficient traffic circulation network, or to retain the availability of access to an adjacent property.
- T-309 As a condition of the approval of new development, the County should require the improvement of existing off-site roadways and undeveloped road rights-ofway, and/or other strategies to reduce demand on roads when the improvement or strategy is reasonably necessary as a result of the impacts of the development. The impacts that may warrant such improvements include, but are not limited to, those that create safety concerns, raise road operational

Public Transportation Strategies

Policies in this section that are unchanged from the current Comprehensive Plan are under the jurisdiction of the Regional Transit Committee. Changes in these policies may occur during development of the Transit Long-Range Policy Framework.

- T-310 King County should plan, design, and implement a system of services and facilities that support integration of regional and local services, and that facilitate access to the system for pedestrian, bicyclists, transit collection/distribution services, and persons with disabilities, thereby providing a viable alternative to auto usage.
- T-311 King County should support local and regional growth management plans and policies. King County should work with other jurisdictions to focus new and existing services and facilities to support targeted land use concentrations identified in local comprehensive and regional plans and within the Urban **Growth Area of King County.**
- T-312 King County should adopt transit supportive policies assigning highest priority to serving Urban Centers and Manufacturing Centers with transit service, including transit priorities on arterial streets jointly designated for transit

6-15 February 2001 priority by the County, cities, and the Washington State Department of Transportation.

- T-313 King County should use a community-based planning process when working with cities and unincorporated area communities to develop effective transit services including consideration of local circulation needs, feeder bus service, fixed and non-fixed routes, and various coach sizes appropriate to the neighborhood scale and market.
- T-314 High Capacity Transit facilities and services which are consistent with, and supportive of, the Comprehensive Plan should be supported and implemented.

C. Nonmotorized Transportation

The nonmotorized program is an essential element of King County's multimodal transportation system. Nonmotorized transportation users include pedestrians, bicyclists and (in certain areas of the County) equestrians. While each group has different needs, they all rely on King County's road system for safe access. Trail networks, sidewalks, bike lanes, and other nonmotorized improvements encourage walking and cycling. They also improve access to transit stops, resulting in increased transit ridership and improving the quality of life in their communities.

- T-315

 Nonmotorized transportation should be promoted countywide to increase safety, mobility and convenience for nonmotorized modes of travel. These efforts should emphasize the ability of nonmotorized modes to extend the efficiency of regional transit, promote personal mobility in a range of land use areas and expand the transportation alternatives available to the public.

 T-316

 King County should include nonmotorized transportation when general transportation improvements are made, including road construction,
- transportation improvements are made, including road construction, reconstruction, subdivision development and development of new transit systems.
- T-317 New land use plans, subdivisions, and urban planned development proposals should include enhancements to nonmotorized mobility and access.
- T-318 King County design standards should allow flexibility in selecting, and the authority to require design features that benefit nonmotorized safety and accessibility.
- T-319 Unused rights-of-way should be considered for development as pedestrian, bicycle, equestrian or accessible connectors.
- T-320 King County should evaluate and implement, when possible, standards for new and innovative nonmotorized treatments.
- T-321 King County should seek to improve pedestrian safety both within residential areas and at arterials near pedestrian activity centers such as schools, retail centers, concentrations of housing, transit facilities and trails. Within residential areas, King County shall offer a comprehensive package of neighborhood traffic services to unincorporated area residents and, on a contract basis, to local jurisdictions. Pedestrian safety improvements should include adequate signage, markings and signalization where warranted, or the construction of grade-separated crossings in appropriate locations. To foster safe walking conditions for students, King County should continue the School Walkway Program.

February 2001 6-16

D. Air Quality

The Washington State Clean Air Conformity Act establishes guidelines and directives for implementing the federal Clean Air Act Amendments. The Washington Act specifically links air quality conformity to growth management planning efforts at the local and regional level.

The Washington Administrative Code states that local transportation plans shall include, "policies and provisions that promote the reduction of criteria pollutants that exceed national ambient air quality standards." (WAC 173-420-080)

The following policies have been developed to be consistent with and support the policies in Chapter 4, Section 1B of this Plan, "Air Quality and Forest/Tree Cover."

- T-322 The transportation system should conform to the federal and state Clean Air Acts by maintaining its conformity with the Metropolitan Transportation Plan of the Puget Sound Regional Council and by following the requirements of Chapter 173-420 of the Washington Administrative Code.
- T-323 King County should work with the Puget Sound Regional Council, the State Department of Transportation, transit agencies and other jurisdictions in the development of transportation control measures and other transportation and air quality programs where warranted. This work would address the requirements of the federal Clean Air Act as amended, the air quality provisions of the federal Transportation Equity Act for the 21st Century and the Washington State Clean Air Conformity Act.
- T-324 King County should consider the following strategies to reduce criteria pollutants including, but not limited to: trip reduction strategies, transportation pricing controls, employer transportation management programs, work schedule changes; ridesharing programs, dedicated facilities for high-occupancy-vehicles, traffic flow improvements, parking management, bicycle and pedestrian programs, mixed use development, and car sharing programs.

6-17 February 2001

IV. Finance

King County's transportation vision depends on adequate funding for transportation needs. The Growth Management Act requires that the County include an analysis of funding capabilities, a multi-year financing plan based on needs and a discussion of how to raise additional funds or reassess growth and level-of-service standards to resolve a potential funding shortfall for at least a ten-year period. This section provides such information and discusses the extent to which the transportation facilities can be funded within a reasonable revenue forecast and expenditure schedule.

A. Funding Capabilities: Road-Related Sources

Financial viability to support transportation capital needs is tested at two levels. Initially, a 20-year plan is identified to meet transportation improvements needed to support the plan vision. The 20-year plan provides for an assessment of revenues from currently available resources and identifies reasonable options for securing additional revenues over the life of the Plan. Secondly, the annual capital improvement program preparation provides a six-year window review that examines the specifics of how to implement the financing plan.

King County receives road revenues from a variety of sources, including unincorporated King County property tax, federal and state grants, state gas tax, local taxes and road mitigation payments from private developments. A full description of transportation financing can be found in the "Transportation 20 year Financial Forecast," located in the Transportation Needs Report.

B. Revenue Shortfall

Comparing the Plan's future transportation needs with projections of revenue from current sources shows the total revenue shortfall over the 20-year planning horizon. Different strategies or actions can be identified to address this shortfall. As an example, priority for funding may be given to only projects directly related to achieving the level-of-service standard, to projects that are related to providing capacity or to non-capacity projects.

The intent of this Plan is not to demonstrate a dollar by dollar accounting of transportation needs and revenues. Rather it is to demonstrate the reasonableness of the Plan and its implementation and to show that the goals of growth management can be met. Other sections of this chapter describe how the transportation element addresses growth management goals for transportation and adequate facilities/services. The reasonableness of the Plan's transportation element focuses on the shortfall and the potential for funding future needs.

Strategies to address the shortfall can range from reconsideration of the transportation needs to new revenue options to changes in levels-of-service to revisions of the land use policies. Decisions on the what to do should be made based on monitoring implementation of this Plan. The following actions can be used to balance the funding shortfall of the Plan:

- 1. Reduce transportation funding needs:
 - Re-evaluate the need for projects
 - Promote transportation demand management actions to reduce vehicle trips
 - Re-scope project needs and downsize where possible

- 2. Develop new revenue options:
 - Increase revenues by using existing sources
 - Participate in regional funding strategy development
 - Seek new or expanded revenue sources
 - Public/private participation
- 3. Change level-of-service:
 - · Adjust the level-of-service standard to allow more growth
 - Adjust the level-of-service standard to allow more growth in selected areas only
 - Adjust the level-of-service standard to discourage more growth
- 4. Change land use:
 - Revise the land use plan to encourage / discourage growth in selective areas
 - Adjust the target forecast
 - Delay development until facilities are adequate
- T-401

Financial resources available for transportation improvements should support a program of capital facilities needed for a multi-modal transportation system. The Transportation Priority Process should give priority to critical capacity projects needed to achieve level-of-service standards in Transportation Service Areas 1, 2, and 3 and to support the transportation service strategies and ensure adequate transportation facilities. Then priority should be given to capacity projects for new growth in Transportation Service Area 4. Allocation of resources to support transportation demand management projects shall be part of the Transportation Needs Report process.

T-402

The essential maintenance, preservation, safety and operations costs of the transportation system should be funded prior to other costs for capital improvements so that existing investment is protected and current mobility is not degraded.

T-403

When funding transportation projects in areas where annexations or incorporations are expected, the Department of Transportation should seek interlocal agreements with the affected cities and other service providers to provide opportunities for joint grant applications and cooperative funding of improvements.

T-404

During annual review of the Comprehensive Plan, King County should consider and address any potential shortfalls that may occur between expected revenues and needed improvement costs. Such resolution could include a reassessment of land use, growth targets, level-of-service standards and revenue availability.

6-19 February 2001

V. Coordination

This chapter has been prepared in coordination with adjacent cities and counties to assess potential impacts on their jurisdictions. Citizen participation and coordination was also used to assist in the planning process and to reconcile any conflicts. The following activities have supported the coordination process:

- Review by the transportation subarea boards
- Review by the Unincorporated Area Councils
- Development of the Regional Arterial Network
- The update of the Six-Year Transit Development Plan
- The Statewide and Countywide grant application process
- The Capital Improvement Program (CIP) coordination process
- Participation in the Puget Sound Regional Council, enabling King County to coordinate its transportation planning activities with other local and regional agencies' for the four central Puget Sound counties.
- T-501 All elements of the transportation system should be planned and operated in coordination with the cities in and abutting King County, the adjoining counties, the Washington State Department of Transportation, the Port of Seattle, the transit agencies that provide service in and to the County, and the Puget Sound Regional Council. Prioritization of countywide facility improvements should be coordinated among jurisdictions to implement the countywide land use vision.
- T-502 King County should work with the Puget Sound Regional Council and its members to ensure that any regional projected aviation capacity problems, and the air transportation needs of the region's residents and economy are addressed in a timely manner.
- T-503 King County should support the completion of the designated freeway HOV lane and limited access highway system. Access to this HOV lane system should also be supported.

VI. Implementation and Monitoring

The balance between land use, transportation services and funding is critical. The Transportation Chapter will be implemented through the funding of planned transportation improvements and strategies from available resources and by the management and monitoring of the system to ensure there are adequate facilities to support growth. Roads needs will be prioritized through updates to the Six-Year Roads Development Plan. High-priority projects will be programmed for funding in the Capital Improvement Program. Transit projects will be implemented as the needed revenues become available and in coordination with other related improvements and service development needs as described in transit planning and budget documents.

The annual Capital Improvement Program and Financial Plan will be consistent with the Comprehensive Plan and will consider the current performance of the transportation system, concurrency needs of planned developments, priority projects, phased implementation of improvements and other related factors. Revenues from all sources including Mitigation Payment System fees will be programmed to appropriate projects.

Concurrency will be maintained through the development and use of the Transportation Concurrency Management Program to help manage development and achievement of the level-of-service standards adopted in the Comprehensive Plan.

System performance will be monitored through periodic traffic counts, speed and delay studies, travel time observations for autos and buses and by computer simulation of travel network characteristics. Information on system performance will be shared with other transportation agencies in the County. If performance deteriorates below adopted standards, then the Comprehensive Plan will be amended to include improvements needed to restore level-of-service standards, or a reassessment of standards, funding and growth will be considered.

T-601 King County should maintain an inventory of its transportation facilities and services to support its management of the system and to monitor system

performance.

T-603

T-602 King County shall periodically evaluate transportation components of the Comprehensive Plan and shall recommend actions that ensure implementation of the Comprehensive Plan vision.

King County shall monitor and establish benchmarks to assess regional transportation system performance and implementation of the Comprehensive Plan. To accomplish this task King County should develop travel forecasts and maintain a Geographic Information System and databases. The data shall include existing and forecast regional population, employment, development and transportation information. The County, in cooperation with other jurisdictions, should produce reports on traffic and transportation activities. Such reports

6-21 February 2001

should highlight performance characteristics and identify the deficiencies, problems of safety and operations and areas not in compliance with level-of-service standards.

February 2001 6-22

VII. Transportation Element: Requirements and Components

Specific requirements for the transportation element are found at RCW 36.70A.070(6)(a). The following sections describe how the transportation element of the King County Comprehensive Plan meets those requirements.

A. Land Use Assumptions

The transportation element uses the same growth targets as the entire Comprehensive Plan. These targets are provided in Chapter Two of the Plan.

The transportation element maintains the overall household and employment targets established in the 1994 King County Comprehensive Plan with revisions to reflect annexations and incorporations that have occurred since its adoption. In some areas, growth has occurred faster than anticipated by these targets. These higher growth rates have been reflected in land use forecasts and transportation needs. Other areas have not grown as fast as anticipated.

Although future land use growth targets have not been reallocated, actual growth rates are updated in the Transportation Concurrency Management system. This provides a mechanism to identify and implement transportation needs and is especially important in those areas where the previous growth targets have been exceeded. The Comprehensive Plan provides the 20 year vision for roads while the Transportation Concurrency Management system tracks the actual growth and links the growth to projects, timing, and priority for the 6-year roads and transit development plans and capital improvement programs.

More information on land use assumptions used in the traffic impact analysis is provided in this Plan, Section II A and B. Traffic impact analysis was conducted for the Supplemental Environmental Impact Statement (SEIS) for the 1994 Plan and is still valid.

B. Estimated Traffic Impacts to State-Owned Facilities

Both the traffic impact analysis conducted for the Supplemental Environmental Impact Statement (SEIS) for the 1994 Plan and the analysis conducted for the Transportation Concurrency Management program include state facilities. Both use standard transportation analysis techniques.

C. An Inventory of Transportation Facilities and Services

The inventory is provided in Appendix C. As required by growth management legislation, it includes air, water, and ground transportation facilities and services as well as transit alignments and general aviation airport facilities. It includes both county-owned and state-owned transportation facilities within the county's boundaries.

D. Level of Service Standards Including Standards for State Routes

6-23 February 2001

King County has adopted the Transportation Adequacy Measurement (TAM) standards and "Critical Links" as its transportation level-of-service standards. The TAM standards serve as a gauge to judge the performance of the County's transportation system. The level-of-service standards are linked to the County's Transportation Concurrency Management System and capital improvements.

The TAM standards are designated based on the companion Transportation Service Area Map. State routes, except for limited access freeways and state routes with HOV lanes, are included in the TAM score calculation and in the "Critical Links" determination. The TAM standards are discussed in greater detail later in Section II.

E. Actions to Bring Facilities into Compliance

The traffic impact analysis conducted for the 1994 Plan identified 600 transportation improvement projects that were needed by 2010 at a cost of \$1.1 billion. These projects were listed in the Transportation Needs Report that was adopted along with the 1994 KCCP. The Six-Year Roads Development Plan and the six-year Capital Improvement Program identify specific projects and actions to address transportation needs.

F. Traffic Forecasts for at Least Ten Years

Travel forecasts were developed for a 20-year horizon. See Section II and Appendix C for more information on forecasts.

G. State and Local Transportation Needs to Meet Current and Future Demands

King County will be in compliance with this new GMA requirement by the December 31, 2000, deadline. The Transportation Needs Report six-year roads and transit development plans and capital improvement programs are the elements of the King County Comprehensive Plan that address the GMA requirement of identifying state and local system needs to meet current and future demand.

H. Analysis of Funding Capability

The 2000 Plan includes the financial analysis in the Transportation Needs Report which is an element of the Plan that is updated annually. More information on the financial analysis is provided in Section IV of this Plan.

I. Intergovernmental Coordination

See Section V for a discussion of coordination.

J. Concurrency

The concurrency program is described in Section II E of this Plan.

K. Consistency of Plans

The Comprehensive Plan is consistent with the Metropolitan Transportation Plan, the regional transportation plan for the four-county region. The Puget Sound Regional Council reviews the plan for consistency and has previously certified the King County Comprehensive Plan and also its amendments. In addition the Comprehensive plan policies have been reviewed by other jurisdictions within King County.

The Comprehensive Plan provides policy direction for the development of the County's 6-year functional plans.